Πο μεραβενικη Μαρικοβα: 
$$P(x>A) \leq \frac{E(x)}{A}$$
 ombem: 0.75  $P(x>400) \leq 0.75$ 

$$P(X \leq A) + P(X > A) = 1$$

$$P(X > A) = \frac{E(X)}{A} \geq 1 - P(X \leq A)$$

$$P(X \leq A) \geq 1 - \frac{E(X)}{A} = 1 - \frac{300}{500} = 0.4$$

2. h=1600 P=0.3 E=50 no exeme Joephymu E(X)= np = 480 D(X) = np(1-p) = 336no reparenciently Geodometa: 17E>D P(1X-EX) = EX) -1. || (|x-480|<50) > |-336 = 0.86562mbem : 0-8656

 $\sum_{X=\{9,5,7,7,4,10\}}$ X = \frac{1}{15} \times \times \frac{1}{15} \times \frac{1}{15} = \frac{9+5+7+7+4+10}{15} = \frac{1}{15} 1- = = 0.995 no madruye: Zz = 2.58 1= 5 Zz = 1.05 √ = √ 2.58 ~ 1.05

Ombem: gobenumenberni ummenban (x-1, x+1)=(5.95; 8.05)

 $P(X) = \frac{1}{\sqrt{2} \sqrt{5}} = \frac{(x-M)^2}{2 \sqrt{5}}$  $\ln L = \ln \frac{1}{(1270^{2})^{n}} - \frac{1}{20^{2}} \sum_{i=1}^{n} (X_{i} - M)^{2}$   $(\ln L)_{M} = \frac{1}{0^{2}} \sum_{i=1}^{n} (X_{i} - M) = 0 \Rightarrow \frac{1}{0^{2}} \frac{X_{i} - M}{N} = 0 \Rightarrow \hat{M} = X$  $(\ln L)_{6^{2}} = \left[ \left( -\frac{n}{2} \right) \left( \ln 2 \chi + \ln 6^{2} \right) - \frac{1}{26^{2}} \frac{\chi}{2} \left( \chi_{i} - \mu_{i} \right)^{2} \right] = D$   $= \lambda - \frac{\eta}{26^{2}} + \frac{1}{26^{4}} \frac{\chi}{2} \left( \chi_{i} - \mu_{i} \right)^{2} = 0$   $= \lambda - \frac{\eta}{26^{2}} + \frac{1}{26^{4}} \frac{\chi}{2} \left( \chi_{i} - \mu_{i} \right)^{2} = 0$   $= \lambda - \frac{\eta}{26^{2}} + \frac{1}{26^{4}} \frac{\chi}{2} \left( \chi_{i} - \mu_{i} \right)^{2} = 0$   $= \lambda - \frac{\eta}{26^{2}} + \frac{1}{26^{4}} \frac{\chi}{2} \left( \chi_{i} - \mu_{i} \right)^{2} = 0$   $= \lambda - \frac{\eta}{26^{2}} + \frac{1}{26^{4}} \frac{\chi}{2} \left( \chi_{i} - \chi_{i} \right)^{2} = 0$ 

Ombem: M-X,  $G^2 = \frac{1}{n} \sum_{i=1}^{n} (X_i - X_i)^2$